Inventor: Sano et al.

Docket No.: 10873.822US01

Title: AL HEAD APPARATUS, OPTICAL INFORMATION RECORD
REPP: NG APPARATUS, METHOD FOR DETECTING ABERRATIO

Attorne; Inc.: Douglas F. Niueller

Phone No.: 612.371.5237

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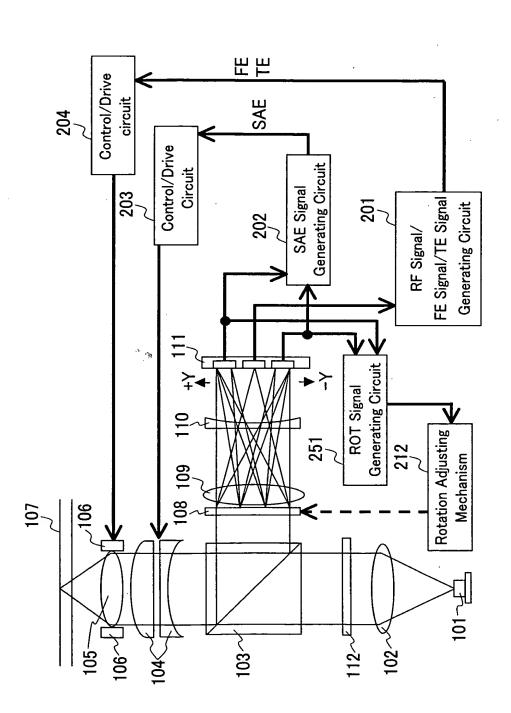


FIG. 1

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Title: OPT HEAD APPARATUS, OPTICAL INFORMATION RECORDING AND APPARATUS, METHOD FOR DETECTING ABERRATION.
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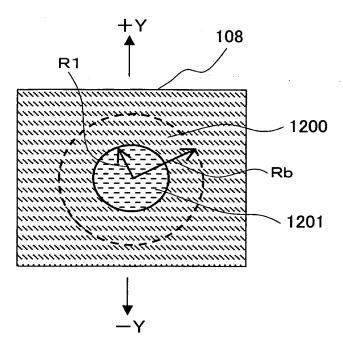


FIG. 2

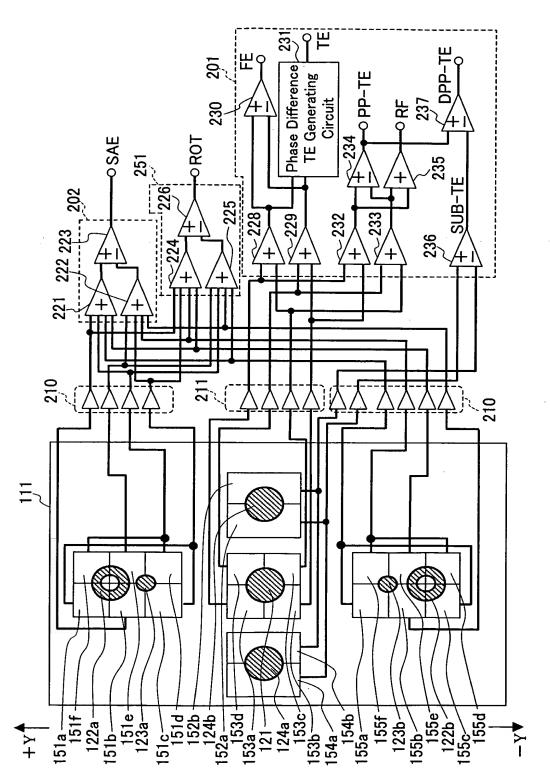
Inventor: Sano et al.

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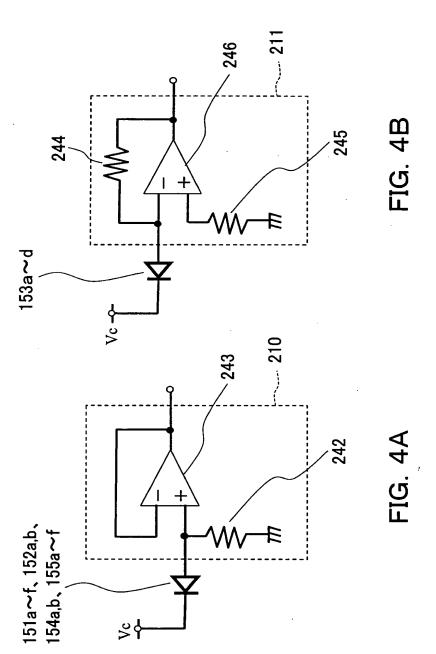
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Attorns ame: Douglas P. Mueller
Phone No.: 612.371.5237

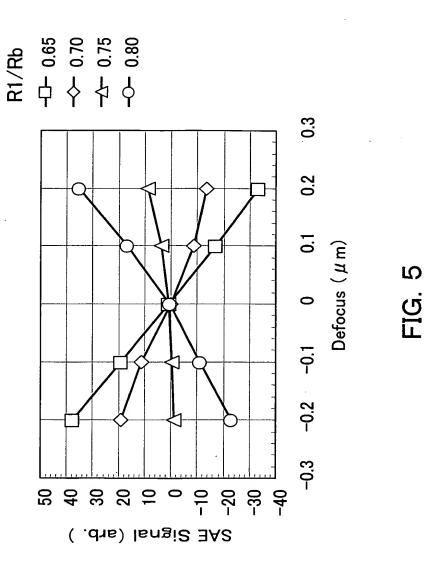
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Title: OPTION HEAD APPARATUS, OPTICAL INFORMATION RECORDING AND REPROD

APPARATUS, METHOD FOR DETECTING ABERRATION.

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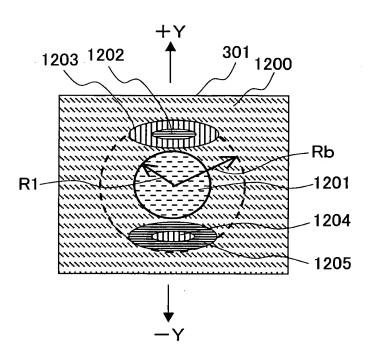


FIG. 6

Inventor: Sano et al.

Docket No.: 10873.822US01

Title: Grant L HEAD APPARATUS, OPTICAL INFORMATION RECORDS

REPRO GRAPPARATUS, METHOD FOR DETECTING ABERRATION

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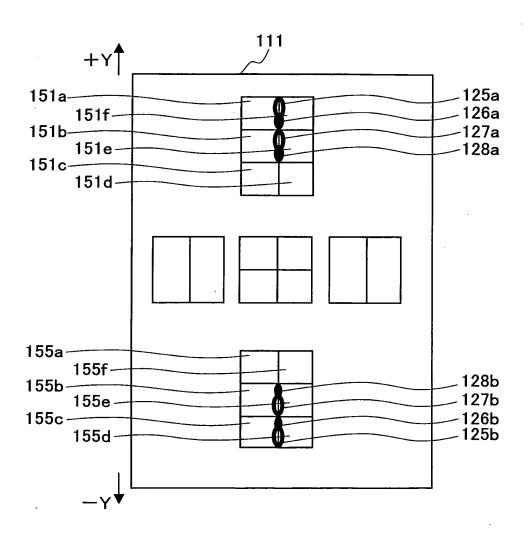
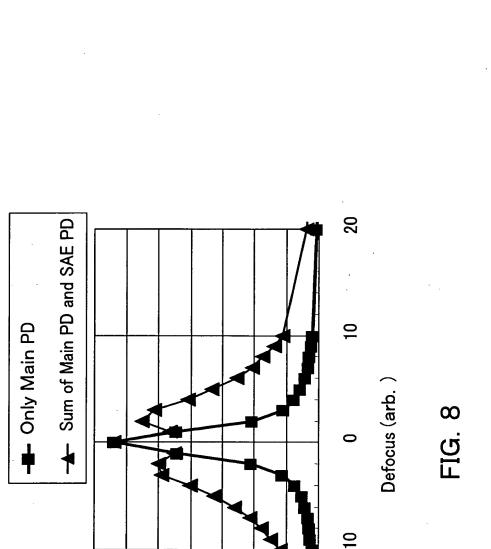


FIG. 7



25

20 15

Amount of Light (arb.)

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Inventor: Sano et al.
Docket No.: 10873.822US01
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Atto... Name: Douglas P. Mueller
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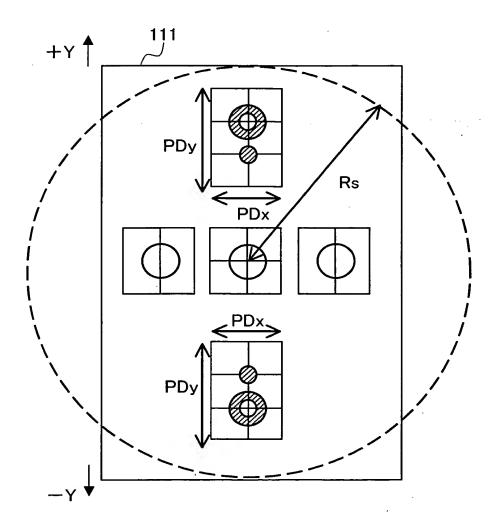
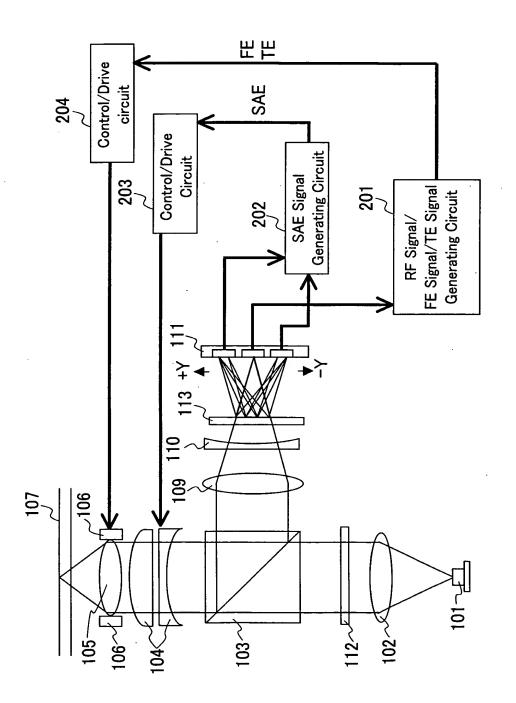


FIG. 9

Inventor: Sano et al.
Docket No.: 10873.822US01
Title: GOT CAL HEAD APPARATUS, OPTICAL INFORMATION RECORDING
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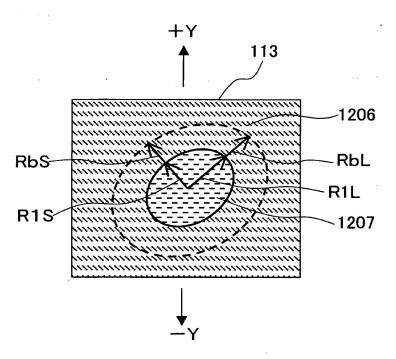


FIG. 11

Inventor: Sano et al.
Docket No.: 10873.822US01
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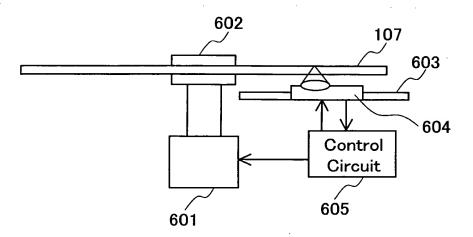
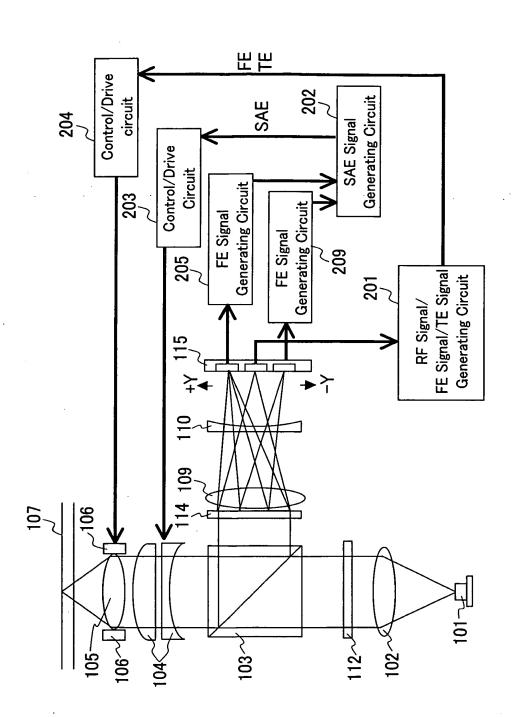


FIG. 12

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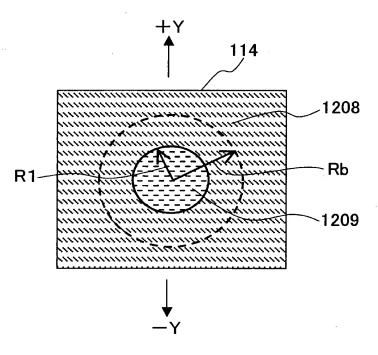


FIG. 14

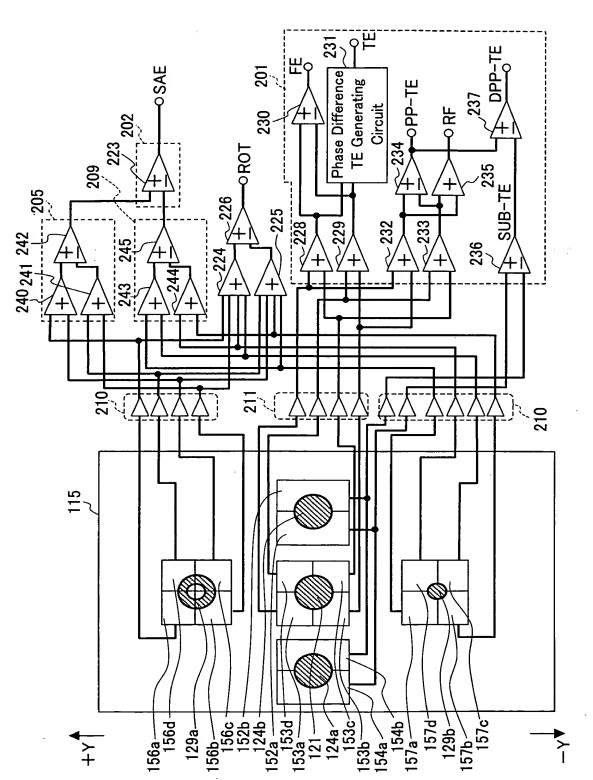
Inventor: Sano et al. Docket No.: 10873.822US01

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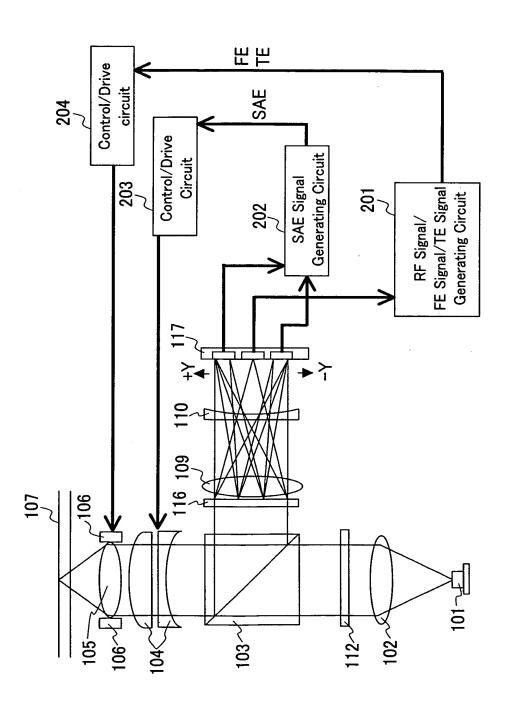
Attor. Name: Douglas P. Mueller Phone No.: 612.371.5237

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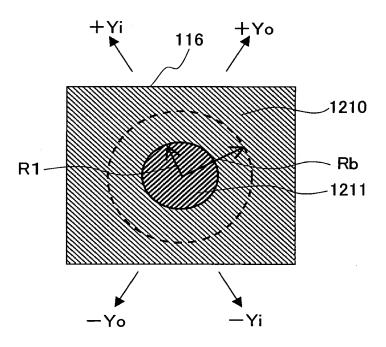


FIG. 17

Inventor: Sano et al.

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TO PTICAL HEAD APPARATUS, OPTICAL INFORMATION RECOULD APPARATUS, METHOD FOR DETECTING ABERR Name: Douglas P. Mueller
Phone No.: 612.371.5237

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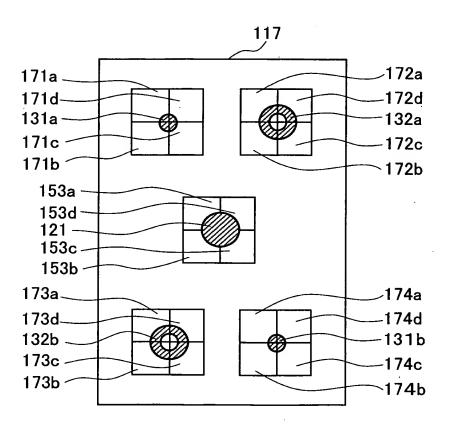


FIG. 18

Inventor: Sano et al.

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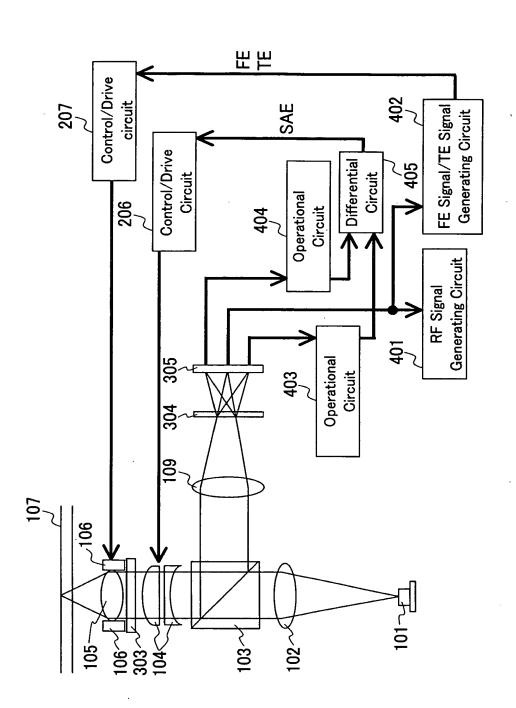


FIG. 19

Inventor: Sano et al.
Docket No.: 10873.822US01
TO OPTICAL HEAD APPARATUS, OPTICAL INFORMATION RECORDING AND DUCING APPARATUS, METHOD FOR DETECTING ABER OF Name: Douglas P. Mueller
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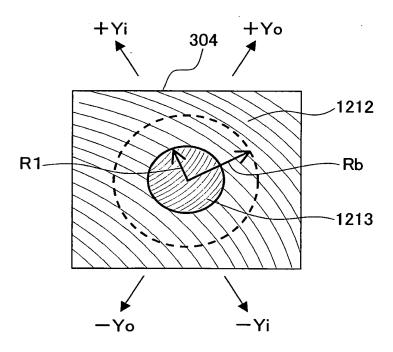


FIG. 20

Inventor: Sano et al.
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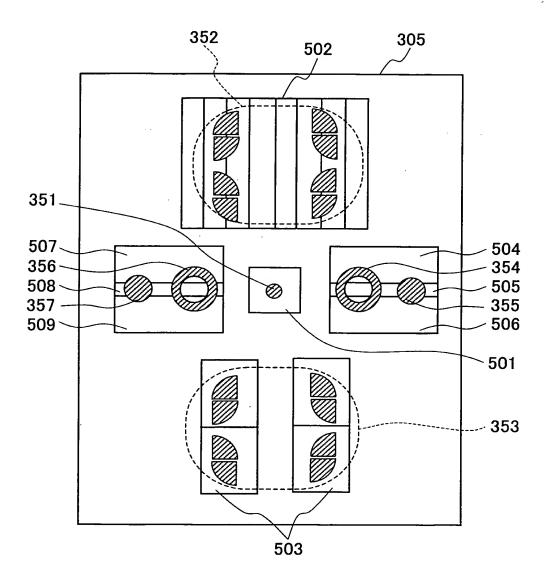


FIG. 21

Inventor: Sano et al.
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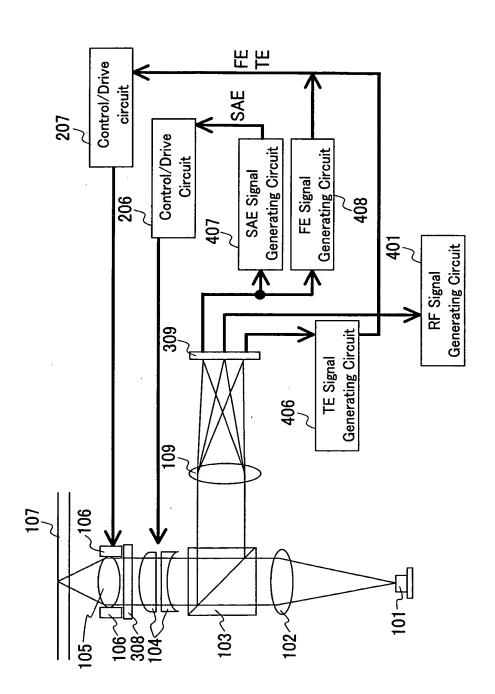


FIG. 22

Inventor: Sano et al.

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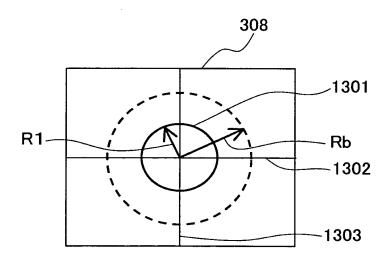


FIG. 23

Inventor: Sano et al.
Docket No.: 10873.822US01
Tibe: OPTICAL HEAD APPARATUS, OPTICAL INFORMATION RECORDING AND DDUCING APPARATUS, METHOD FOR DETECTING ABER ey Name: Douglas P. Mueller

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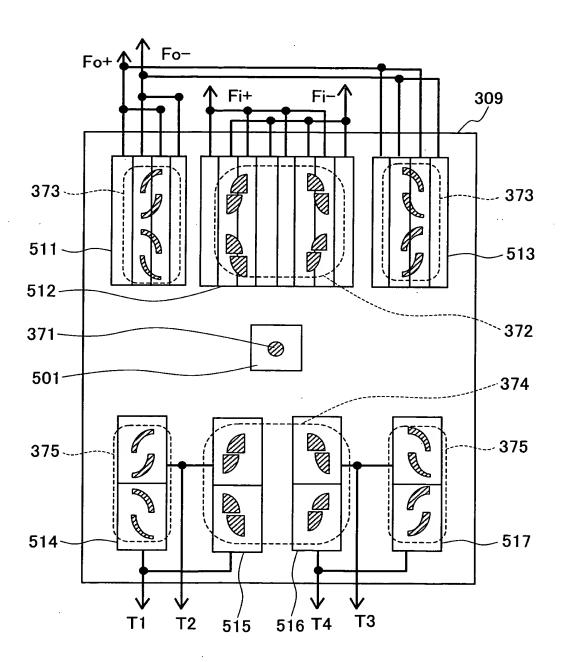


FIG. 24

Inventor: Sano et al.
Docket No.: 10873.822US01
: OPTICAL HEAD APPARATUS, OPTICAL INFORMATION RODUCING APPARATUS, METHOD FOR DETECTING ABIOMEY Name: Douglas P. Mueller
Phone No.: 612.371.5237
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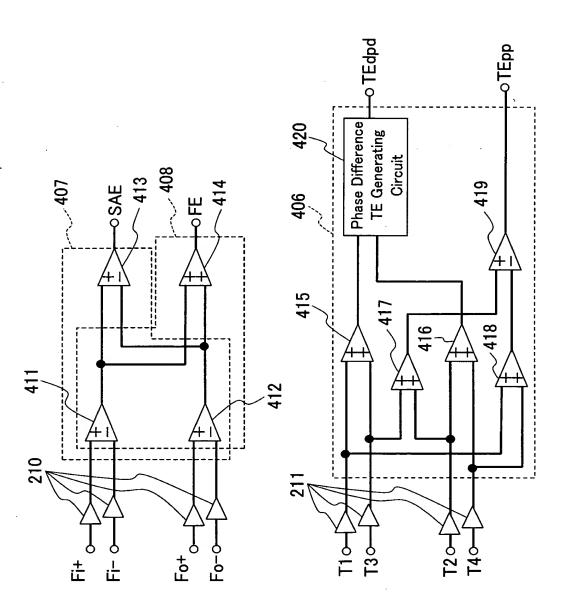


FIG. 25

Inventor: Sano et al.
Docket No.: 10873.822US01
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Phone No.: 612.371.5237
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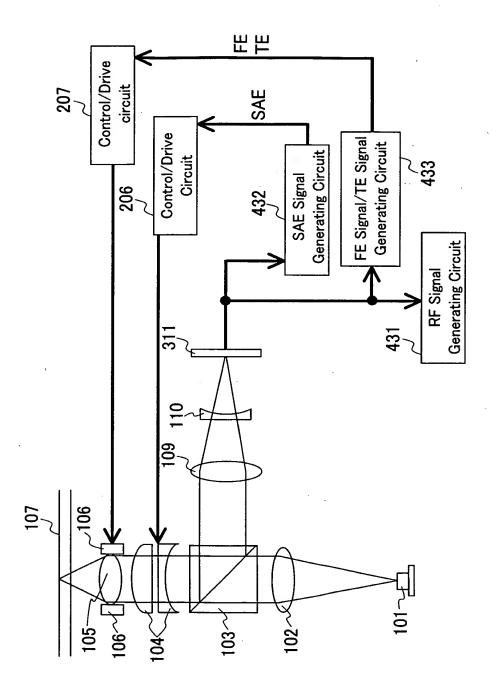


FIG. 26

Inventor: Sano et al.
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TO PTICAL HEAD APPARATUS, OPTICAL INFORMATION RECOUNG AND UCING APPARATUS, METHOD FOR DETECTING ABERR.
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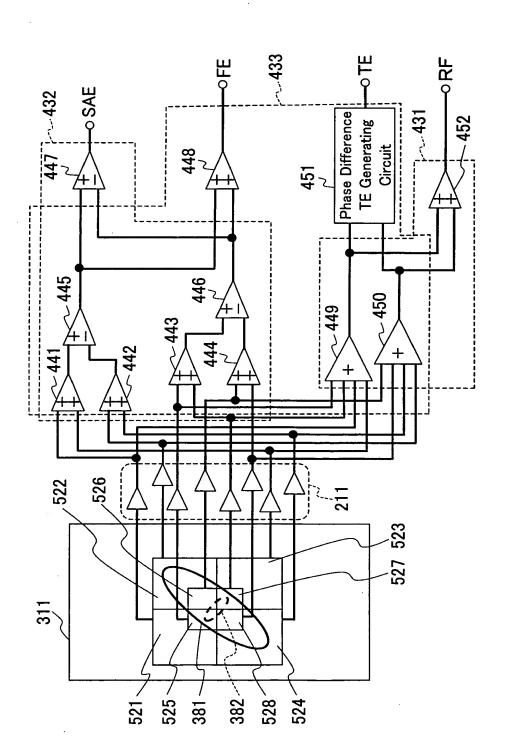


FIG. 27

Inventor: Sano et al.
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Title OPTICAL HEAD APPARATUS, OPTICAL INFORMATION RECED DUCING APPARATUS, METHOD FOR DETECTING ABERR Name: Douglas P. Mueller
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FIG. 28 (PRIOR ART)

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Ile: OPTICAL HEAD APPARATUS, OPTICAL INFORMATION PRODUCING APPARATUS, METHOD FOR DETECTING Al. Intorney Name: Douglas P. Mueller
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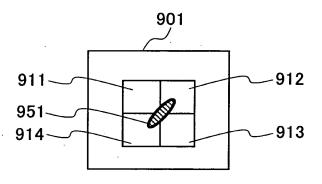


FIG. 29 (PRIOR ART)